

SAND99-2086

# Southwest Genomics and Biotechnology Alliance

**Statement of Purpose:** The goal of the Southwestern Genomics and Biotechnology Alliance is to assemble multidisciplinary teams of scientists to address regional and national problems in health, agriculture, the environment, and security. Specifically, the collaboratory will:

- ❑ provide advanced genomic and proteomic technologies to regional researchers,
- ❑ provide advanced bioinformatics and computational biology capabilities for related genomic and proteomic technologies,
- ❑ support the regional development of biotechnology industry, and
- ❑ serve as a source of education and information for students, researchers, and the community.

For more information  
contact George Davidson  
at Sandia National  
Laboratories

**Initial Participants:**  
University of New Mexico (UNM)  
New Mexico State University (NMSU)  
Santa Fe Institute (SFI)  
Sandia National Laboratories (SNL)  
Los Alamos National Laboratories (LANL)  
National Center for Genome Resources  
(NCGR)

- Devise robust models for predicting phenotype from genotype, and from entire genomes ("predictive genomics")
- Establish a bioinformatics platform that interprets multiple types of data (microarray, sequence, map etc.) and that is portable



A cluster within the southwest  
as a region of innovation.

## Research Goals:

- Develop high throughput protein analysis technology, proteomics and structural biology
- Develop tools for modeling metabolism in complex organisms

Last Modified Date: July 13, 1999

Comments?